Pranav Minasandra

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Max Planck Institute of Animal Behavior,
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Interests	I am keen on developing novel theories of behaviour in animals and developing methods to answer behavioural questions in creative ways. Particularly, I am interested in the dynamics of behaviour at the fine-scale, and how it connects with social behaviour.	
Education	**Max Planck Institute of Animal Behaviour, Konstanz, Germany** PhD - International Max Planck Research School of Organismal Biology	2020 onwards
	Indian Institute of Science (IISc), Bengaluru, India - Master of Science in Biology - Bachelor of Science (Research) with a major in Biology	2015 - 2020

Publications

[1] **Pranav Minasandra** et al. "Accelerometer-based predictions of behaviour elucidate factors affecting the daily activity patterns of spotted hyenas". In: *Royal Society Open Science* 10.11 (Nov. 2023), p. 230750. DOI: 10.1098/rsos.230750.

[2] Sharaj Kunjar et al. "Link updating strategies influence consensus decisions as a function of the direction of communication". In: *Royal Society Open Science* 10.6 (June 2023), p. 230215. DOI: 10.1098/rsos.230215.

[3] **Pranav Minasandra** and Kavita Isvaran. "Truncated power-law distribution of group sizes in antelope". In: *Behaviour* 157.6 (2020), pp. 541–558. DOI: [10.1163/1568539X-bja10012](10.1163/1568539X-bja10012).

Awards and fellowships	**DAAD - Graduate Student Scholarship Programme** Nominated after evaluation of my proposal €1200 per month for 4 years, as well as additional costs	2020 Oct onwards
	Kishore Vaigyanik Protsahan Yojana *All India Rank : 135* Includes stipend and contingency	2015- 2020
Mentorship	**Amlan Nayak** *Master thesis:* Spatial Variation of Vigilance in Meerkats.	2022 Jun- 2023 Apr
	Ananya Passi *Summer research:* Mathematical modelling of habitat use and population dynamics.	2019 Jun- 2020 May
Teaching	**Teaching Assistantship** For the course *Quantitative Ecology: Research Design and Inference* Assisted with coding in R, conducted several classes, graded assignments, managed course website.	2019 Aug - Dec
Contributed talks	**Descriptive & Normative Models of Collective Behaviour** *School of Mathematics, University of Leeds* "Looking into hyena daily activity patterns using accelerometers"	2022 June
	Animal Behaviour Society - Virtual Seminar 2021 "Behavioural classifier provides insights into spotted hyena behaviour"	2021 Aug
Technical skills	*Programming languages and related*	

Python, Julia, R, Bash, LaTeX, and C. HTML, CSS, and git.

Computational skills
Parallel processing; Machine learning; Front-end development in `R Shiny`; Agent-based models;

Mathematical modelling
Models incorporating spatial and stochastic variables; Non-linear dynamics, including population dynamics and evolutionary dynamics; Probability models; Numerical simulations of all the above.

References

Dr Ariana Strandburg-Peshkin,
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Dr Alex L Jordan,
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Dr Kavita Isvaran,
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Dr Vishwesha Guttal,
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